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Haven, Conn. The utilization of research. December 13, 1919, to post-graduate student officers.

Dr. Arthur D. Little, Charles River Road, Cambridge, Mass. Natural resources in their relation to military supplies. January 17, 1920, to post-graduate student officers.

Dr. Wm. H. Nichols, 25 Broad St., New York City. Sulfuric acid, the pig iron of chemistry. February 6, 1920, to midshipmen.

Dr. Willis R. Whitney, General Electric Co., Schenectady, N. Y. Industrial research. February 7, 1920, to post-graduate student officers.

Dr. W. Lee Lewis, Northwestern University, Evanston, Ill. Organic research in toxic gases. March 6, 1920, to post-graduate student officers.

Dr. Chas. L. Reese, E. I. du Pont de Nemours & Co., Wilmington, Del. Explosives. April 2, 1920, to midshipmen, April 3, 1920, to post-graduate student officers.

Dr. Wilder D. Bancroft, Cornell University, Ithaca, N. Y. Organized research. April 30, 1920, to midshipmen, May 1, 1920, to post-graduate student officers.

Dr. Wm. H. Walker, Massachusetts Institute of Technology, Cambridge, Mass. Manufacturing problems of gas warfare. May 15, 1920.

### SCIENTIFIC NOTES AND NEWS

A SECTION of engineering has been established in the National Academy of Sciences and is now constituted as follows: Messrs. H. L. Abbot, J. J. Carty, W. F. Durand, J. R. Freeman, H. M. Howe, F. B. Jewett, G. O. Squier, D. W. Taylor. All members of the sections of physics and chemistry were given an opportunity to remain with the section with which they had been affiliated or to be placed in the section of engineering.

At a recent meeting of the corporation of Yale University it was voted "to extend the sincere congratulations of the corporation to Professor Ernest Brown on the completion of his monumental work on the "Tables of the Motion of the Moon," and to assure him that the university considers the work that he has done on these volumes as among the most important scientific contributions ever made by an officer of Yale University."

We regret to learn that Sir William Osler, regius professor of medicine in Oxford Uni-

versity, who passed his seventieth birthday anniversary last July, was stricken with pneumonia in November.

SIR HENRY A. MIERS, vice-chancellor of the University of Manchester, and formerly professor of mineralogy at the University of Oxford, has been elected president of the Manchester Literary and Philosophical Society.

THE Royal Meteorological Society has awarded the Symons memorial gold medal for 1920 to Professor H. H. Hildebrandsson for distinguished work in connection with meteorological science.

DR. A. PIRELLI has been elected president of an Italian Society of Chemical Industry which has been organized at Milan.

DR. J. C. McLENNAN, professor of physics in the University of Toronto, who has since 1917 been engaged in work for the British Admiralty, will shortly return to Toronto.

DR. NELSON W. JANNEY, New York City, has been appointed director of the new Memorial Laboratory of the Santa Barbara Hospital, founded by the late Dr. Nathaniel Bowditch Potter, for research on metabolic diseases.

DR. RALPH B. SEEM, Baltimore, assistant superintendent of the Johns Hopkins Hospital, has accepted the position of superintendent of the Billings Memorial Hospital, Chicago.

MR. CHESTER G. GILBERT has resigned from the Smithsonian Institution to accept a position on the staff of Arthur D. Little, Inc., of Cambridge, Massachusetts, which has opened a Washington office in the Munsey Building, with Mr. Gilbert in charge.

DR. E. MILLER, associate in chemistry at the Johns Hopkins University, has resigned to take a position with the DuPont Powder Company.

MR. W. J. COTTON has resigned from the color laboratory of the Bureau of Chemistry to accept a position with the National Aniline and Chemical Company, of Buffalo, New York.

We learn from *Nature* that Captain P. R. Lowe has been appointed assistant in charge of

the bird-room at the Natural History Museum in succession to Mr. W. R. Ogilvie-Grant. Captain Lowe has for many years devoted himself to ornithological research at the Natural History Museum, the Royal College of Surgeons, and Cambridge University, and has made extensive collections of, and observations on, birds in Madeira, the Canaries, the Azores, the Cape de Verde Islands, the West Indies, Mexico, Florida, the Mediterranean islands and coasts, South Africa and the British Islands.

DR. JOSEPH T. SINGEWALD, JR., professor of economic geology at the Johns Hopkins University, has been granted leave of absence to carry on geological investigations in northwestern Peru. He will sail from New Orleans on December 20.

ASSOCIATE PROFESSOR FREDERICK STARR, of the department of sociology and anthropology at the University of Chicago, who is now in Japan on a research expedition, will return to the university in time to give in January a series of illustrated lectures on Mexico.

To express the admiration and gratitude in which Dr. George M. Kober is held by his pupils, friends and coworkers, it has been decided to issue as a testimonial to these sentiments an anniversary publication dedicated to him, on the occasion of his seventieth birthday, March 28, 1920. George Tully Vaughan has been elected chairman of the organization; Felix Neumann, of the Army Medical Museum, secretary; John Foy Edson, treasurer, and as members of the committee at large, General Robert E. Noble, Drs. Charles D. Walcott, Wilfred M. Barton, J. W. Fewkes, Walter D. Hough, L. O. Howard, Aleš Hrdlička, T. Michelson, W. H. Holmes and N. M. Judd. The anniversary publication will be the issue of the *American Journal of Physical Anthropology*, which will be published in the latter part of March, and will be known as the George M. Kober anniversary number.

THE annual Mellon lecture of the Society for Biological Research of the University of Pittsburgh will be delivered by General W. C. Gorgas on the evening of January 8. The sub-

ject of the address will be "Yellow fever." General Gorgas is chairman of the Yellow Fever Commission of the International Health Board, Rockefeller Foundation, and has just returned to the United States from an extensive trip through Central and South America. In his address he will describe the present plans and progress of the work on yellow fever.

PROFESSOR WM. E. RITTER, director of Scripps Institution for Biological Research, visited the University of Illinois December 2 and 3. He spoke before the graduate students and faculty on "Research Problems and Facilities of the Scripps Institution." The department of zoology tendered him a dinner at which he led a discussion on marine biology.

DR. E. G. CONKLIN, professor of zoology at Princeton University, lectured on December 3 at Mount Holyoke College on "Has human evolution come to an end?"

THE Boyle lecture was delivered by Professor A. Keith on November 19, at Oxford University, on "Race and nationality from an anthropological point of view."

THE Harveian festival has been celebrated with full honors by the Royal College of Physicians of London, for the first time since 1913. The oration was delivered by Dr. Raymond H. P. Crawford, and dealt with the fore-runners of Harvey in antiquity. After the oration the president presented the Baly Medal to Dr. Leonard E. Hill.

As a memorial of Professor J. Dejerine, Madame and Mlle. Dejerine have placed a fund at the disposal of the Paris Society of Neurology for research in neurology.

LOUIS VALENTINE PIRSSON, professor of geology in the Sheffield Scientific School of Yale University, died in New Haven, on December 8, at the age of fifty-nine years. Professor Pirsson had held the chair in physical geology since 1897, and for the same period was associate editor of *The American Journal of Science*.

JOHN TAPAN STODDARD, professor of chemistry at Smith College since 1878, died on December 9.

DR. ALLAN McLANE HAMILTON, at one time professor of mental diseases in the Cornell Medical College, died on November 23, aged seventy-one years.

THE death is announced at the age of seventy-eight years of Dr. Walter Knorre, long an astronomer at the Berlin Observatory.

DETAILED accounts of the railroad wreck in the Engo forest, Belgian Congo, in which Dr. Joseph R. Armstrong and William Stowell, both of Los Angeles and members of an exploring expedition sent out by the Smithsonian Institution and the Universal Service motion picture company, were killed have been received from railway headquarters in Rhodesia. The expedition left Sakania, Belgian Congo, for Elizabethville in a special coach attached to a freight train. While the train was stopping for fuel a water truck broke away and crashed into the rear of the train.

A CONFERENCE of representatives of the State and Local Academies of the Central States will be held at St. Louis in connection with the meeting of the American Association for the Advancement of Science. Officers of the academies are requested to meet at the Soldan High School at one thirty on Monday, December 29. Professor H. B. Ward, of the University of Illinois, whose address at St. Louis will be Hotel Statler, will be ready to give further information concerning the conference.

THERE will be a joint dinner of members of Section A of the American Association and of the American Mathematical Society on Tuesday, December 30, at 6.30 P.M. in the American Hotel Annex, 6th and Market Sts. The cost per plate will be \$1.50. Those who will attend are requested to notify Professor W. H. Roever, Washington University, St. Louis, before December 26.

THE twelfth annual meeting of the American Institute of Chemical Engineers was held in Savannah, Ga., December 3 to 6. A series of papers and addresses devoted particularly to such southern industries as cotton, turpentine and rosin was presented, and excursions

to the various chemical industries of Savannah and the vicinity were made.

As December 20, 1920, is the centennial of the Academy of Medicine at Paris, a committee of six members was recently appointed to have charge of the celebration of the anniversary.

THE Geological Survey of Great Britain and Museum of Practical Geology, Jermyn Street, S.W., have been transferred for administrative purposes from the Board of Education to the Department of Scientific and Industrial Research as from November 1, but correspondence with reference to the work of the Survey should be addressed as hereofore to the director of the survey and museum, Jermyn Street, S.W.

THE *Agricultural Experiment Station Journal* states that an announcement was recently made in the British parliament of a change in policy in 1918 regarding research in entomology and plant pathology through public funds. These subjects were originally allocated to the University of Manchester and the Royal Botanic Garden at Kew, respectively, with grants from the Development Fund for their support. In 1918, however, the Development Board decided that all research in plant diseases, whether due to insects or fungi, should be concentrated at a single phytopathological institute at Rothamsted, where also the board's scientific advisory staff in the subject would be stationed. Accordingly the staff at Manchester and a portion of the mycological staff at Kew were transferred to Rothamsted. A grant of \$5,000, per annum, was however continued to the University of Manchester to maintain certain phases of its entomological work and also to take up work in mycology there.

CAPTAIN WILLIAM C. VAN ANTWERP has given \$5,000 to the California Academy of Sciences, to meet the cost of one of the large habitat groups of California mammals which the academy is installing in its museum in Golden Gate Park. Captain Van Antwerp recently visited the museum and was so delighted with the beauty of the groups already

installed and so strongly impressed by their scientific and educational value, that he at once expressed the wish that he might be permitted to assist the museum in its efforts to be of service to the public. After conference with Dr. Evermann, director of the museum, Captain Van Antwerp selected the Roosevelt elk group as the one that he would like to finance. This group is now being prepared under Dr. Evermann's supervision. Paul J. Fair is installing the group and Charles Bradford Hudson is painting the background. The animals will be shown at the edge of a heavy redwood forest such as is found in their natural habitat in the northwestern part of California.

THE erection of a new building for the Department of Health in New York City has been made possible by an appropriation of \$1,000,000 granted by the Board of Estimate. The new building will be erected on a plot of ground, 100 x 100 feet, on West Thirtieth Street, between Seventh and Eighth Avenues. It will provide space for the offices of the director of the Bureau of Hospitals and for the director of the Bureau of Laboratories. Three or four floors will be given to the laboratories. The first floor will be for the Bureau of Records and another floor will be a modern health station where clinical work will be done. One floor will also be devoted to a medical library.

THE *Journal* of the American Medical Association states that the Reale Accademia delle Scienze of Turin, Italy, announces that the Vallauri prize of 26,000 lire, is to be awarded for the best work on any of the physical sciences that was published in the four years ending December 1, 1918. The prize is open to foreigners as well as to Italians. The works sent in to compete for the prize must reach the Academy Via Po 18, Turin, before December 31, 1919. A further prize of 1,200 lire is offered for the best manuscript or article published since January 1, 1915, on the etiology of endemic cretinism.

WE learn from the *Journal* of the American Medical Association that a new hygienic lab-

oratory provided with the most modern equipment has been recently inaugurated at Valparaiso, Chile, in connection with the hospital of San Juan de Dios. The laboratory comprises sections devoted among others to bacteriology, chemistry and serum manufacture.

It is stated in *Nature* that the British Ministry of Ways and Communications Bill was read a third time in the House of Commons on July 10. Sir Eric Geddes, the minister-designate, announced the names of the prospective heads of departments as follows: *Civil Engineering*: Sir Alexander Gibb, civil engineer-in-chief, Admiralty, 1918. *Mechanical Engineering*: Lieutenant-Colonel L. Simpson, R.E., chief mechanical engineer in charge of railway equipment and rolling-stock of the British Armies in France. *Consultant Mechanical Engineer*: Sir John Aspinwall, president of the Institution of Civil Engineers. *Traffic Department*: Sir Philip Nash. *Finance and Statistics*: Sir J. George Beharrell. *Development Department*: Rear-Admiral Sir Charles Martin de Bartolome. *Public Safety and Labor*: Sir William Marwood, joint permanent secretary of the Board of Trade. *Roads Department*: Brigadier-General Sir Henry P. Maybury. *Secretarial and Legal*: Sir R. Francis Dunnell.

STEPS are being taken by the Commonwealth Advisory Council of (natural) Science and Industry of Australia to establish a forest products laboratory, at Perth, West Australia, for the purpose of experimenting in the utilization of the by-products of the timber mills and of the forests. With a view to securing all the information available at similar laboratories such as those at Madison, Wisconsin, and Montreal, Quebec, Canada, Mr. I. H. Boas, M.Sc., lecturer in chemistry at the Perth Technical School, has been sent to the United States to conduct inquiries.

THE board of overseers of Harvard University has recommended that the Harvard Botanical Garden should be combined with the Bussey Institution and moved to the grounds of the latter at Jamaica Plains following a report to the board of overseers of the university by the committee visiting the Botanic

Garden. The report is signed by Ernest B. Dane, of Boston, chairman of the committee; Oakes Ames, '98, director of the Botanic Garden; Edwin F. Atkins; George B. Dorr; Arthur F. Estabrook; W. Cameron Forbes; Richard M. Saltonstall; E. V. R. Thayer; Edwin S. Webster. The Botanic Garden is now situated at the corner of Garden and Linnean Streets and contains more than 5,000 species of flowering plants, which are cultivated for educational and scientific purposes. Dr. Asa Gray was its director from 1842 to 1872.

THE *Journal* of the American Medical Association states that the board of directors of the University of Cincinnati on September 9, is said to have rejected the appointments of the faculty of the industrial medicine and public health department made by Dr. Carey P. McCord. This department is not directly associated with the University of Cincinnati, although the board of directors is authorized to make appointments. The financing of the department is by subscription of business men of Cincinnati.

THERE has been established at Paris an optical institute that will work in the interest of the manufacturers of opticians' supplies; it will not be conducted for commercial profit but solely for the purpose of advancing optical science and the optical industries for the common welfare. The forms of activity of this new scientific institute will be: (1) a training school of optics; (2) a laboratory of research and experiment, and (3) a professional school for advanced study. The school of optics will train experts in the manufacture of optical goods. M. C. Fabry, at present professor of general physics at the Faculté des sciences de Marseilles, has been selected as the head of the new institution. M. Lucien Poincaré, rector of the University of Paris, has evinced an especial interest in the institute and has expressed his intention of requesting a professional chair of optics at the Sorbonne. The laboratories will comprise a research department in which the instructors of the school may conduct their theoretical and practical researches with relation to the various kinds of glass, optical instruments

and opticians' accessories, and a department for the study of manufactured products or any matters of importance submitted for examination by the institute. These laboratories will serve likewise for the training of students. The purpose of the professional school will be to train workers in glass, opticians and mechanics who shall be preeminently qualified.

#### UNIVERSITY AND EDUCATIONAL NEWS

WASHINGTON UNIVERSITY MEDICAL SCHOOL, St. Louis, has received \$300,000 to endow its department of pharmacology. Half of this sum was given by the General Education Board and the other half was raised by the medical school.

MR. P. A. MOLTEÑO and his wife have offered the sum of £30,000 to the University of Cambridge, for the erection and maintenance of a suitable building, to be used as an institute for parasitological research in connection with the department of Professor G. H. F. Nuttall.

ASSISTANT PROFESSOR CHAMPION HERBERT MATHEWSON has been elected professor of metallurgy and metallography in the Sheffield Scientific School of Yale University.

DR. HARRY A. CURTIS has resigned his position at the Nitrogen Research Laboratory in order to accept a professorship in chemistry at Northwestern University, Evanston, Ill.

ISRAEL S. KLEINER, Ph.D., formerly associate in physiology and pharmacology at the Rockefeller Institute for Medical Research, has been appointed professor and head of the department of physiological chemistry at the New York Homœopathic Medical College and Flower Hospital, New York City.

DR. J. G. FITZGERALD has been appointed professor of hygiene at the University of Toronto, to succeed Dr. John A. Amyst, who has been appointed deputy minister of health in the Federal Department of Health, Ottawa.

DR. J. PROUDMAN has been appointed professor of applied mathematics in the University of Liverpool.